

Docket No: 38-10(15486)B

Clean Version of Amended Claim 9

9. (Twice amended) A method for analyzing mRNA molecules in a eukaryotic cell, said method comprising

- (a) pausing transcription in select eukaryotic cells containing nuclei with nascent mRNA transcripts,
- (b) using labeled mRNA transcripts to show a relative rate of synthesis for a plurality of mRNA molecules,
- (c) determining a frequency of synthesis for a plurality of said mRNA transcripts,
- (d) using at least part of said cells to determine a steady-state level of mRNA at the time of said pausing; and
- (e) determining relative rates of mRNA degradation for mRNA transcripts by comparing frequencies of synthesis and steady-state concentrations.